

Change of Title: Please change the title of the proposed patent to “**Class I and Class II MHC Profiling for Sexual, Reproductive, Intimate, and Romantic Matching of Human Partners**”.

Amendments to the Specification:

Please replace paragraph [0001] with the following amended paragraph:

[0001] *Field of Invention:* This invention is a new use of known genetic phenomenon, and it relates to dating services and [[any]] other social or sexual matching of people. Specifically, it's the process of using partial genetic profiles to match individuals with partners.

Please replace paragraph [0003] with the following amended paragraph:

[0003] There are two general areas of prior art that relate to the invention. The first includes the fields from which the invention drives; those of zoology and reproductive genetics. The second category of relevant prior art is that to which the new use of the first is applied; namely dating services and other partner-matching organizations in general whose participants' primary intent is to engage in romantic, sexual, reproductive, and/or intimate relationships with other individuals.

Please replace paragraph [0005] with the following amended paragraph:

[0005] Dating services and other related partner-matching organizations have historically based their matches on many combinations of the participants' characteristics, without looking at their genetic profiles. The characteristics they've considered include those that are aesthetic, psychological, geographic, professional, and behavioral. Some dating services, for example, have distributed photographs of their members, amongst their other members, so that participants can select partners who appear attractive them. Others have subjected participants to intelligence testing, in order to match partners of similar intellect. Still other services have rated partner compatibility on the preferred hobbies and activities of those considered.

Please replace paragraph [0007] with the following amended paragraph:

[0007] *Objects and Advantages:* Accordingly, the primary object of this invention is the matching of potential ~~social or sexual~~, reproductive, intimate, or romantic partners in such a way that enhances a specific genetic compatibility. This compatibility is based on the genes of the Major Histocompatibility Complex, or MHC, and its advantages over the existing art are

numerous. They include increased sexual attraction, more appealing body odor, and healthier offspring among people match in this way.

Please replace paragraph [0012] with the following amended paragraph:

[0012] This invention is the process of matching people, for sexual, reproductive, intimate, or romantic ~~or social~~ purposes, based on the compatibility of the Class I and Class II regions of their MHC genes.

Please replace paragraph [0013] with the following amended paragraph:

[0013] Figure one is a diagram of the overall process described in this patent. Specifically, it shows the process of using MHC profiling to match ~~potential social or sexual partners together~~ date- or mate-seeking participants.

Please replace paragraph [0015] with the following amended paragraph:

[0015] As figure 1 shows, ~~the process of matching people using MHC profiling~~ this MHC profile matching process can be broken down into three basic steps: Collecting genetic samples from the individuals in a pool of participants, typing the Class I and Class II regions of the MHC of each individual, and matching together those individuals with complimentary Class I and Class II MHC profiles. The first two steps are routinely practiced today in the field of genetics, and the third completes the process of this invention.